

NOTE:  
BEARINGS AND DISTANCES BASED  
ON NAD 83 DATUM CONVERTED  
TO FEET, OHIO STATE PLANE  
COORDINATE SYSTEM - NORTH ZONE.

McINTOSH & McINTOSH, P.C.

PLOT OF ASHTABULA HARBOR		
GPS POINTS		
CITY OF ASHTABULA, ASHTABULA COUNTY, OHIO		
SCALE:	1" = 800'	DATE: JULY 9, 1995

GPS SURVEY  
NIAGARA RIVER TO FAIRPORT, OH  
U.S. ARMY CORPS OF ENGINEERS

WORK ORDER #5

PAPER SIZE IS SET TO LEGAL, SEND THIS TO IMO PRINTER, TABLOID

NAME		LATITUDE		LONGTITUDE		NAD83 METERS		NAD83 FEET		NAD27 FEET		
ASHTABULA HARBOR												
PT. 621A	N	41ø53'46.367320"	W	80ø47'44.547270"	N	248975.876 M.	E	741428.325 M.	N 814848.352 FT.	E 2432502.760 FT.	N 816814.852 FT.	E 2463963.995 FT.
PT. 208	N	41ø55'11.500790"	W	80ø47'31.553990"	N	251607.993 M.	E	741676.359 M.	N 825483.889 FT.	E 2433316.519 FT.	N 825450.175 FT.	E 2464777.792 FT.
PT. 48A	N	41ø53'58.883630"	W	80ø47'35.858740"	N	249365.903 M.	E	741621.023 M.	N 818127.966 FT.	E 2433134.970 FT.	N 818094.340 FT.	E 2464596.203 FT.
PT. 58A	N	41ø53'21.253690"	W	80ø47'53.624620"	N	248197.070 M.	E	741234.229 M.	N 814293.220 FT.	E 2431865.964 FT.	N 814259.763 FT.	E 2463327.184 FT.
PT. 606A	N	41ø53'59.994890"	W	80ø47'51.618280"	N	249393.084 M.	E	741257.146 M.	N 818217.142 FT.	E 2431941.151 FT.	N 818183.539 FT.	E 2463402.384 FT.
PT. 607	N	41ø53'58.953360"	W	80ø47'47.462390"	N	249362.825 M.	E	741353.553 M.	N 818117.867 FT.	E 2432257.446 FT.	N 818084.265 FT.	E 2463718.679 FT.
PT. 611	N	41ø53'52.331560"	W	80ø47'40.222860"	N	249161.813 M.	E	741524.396 M.	N 817458.381 FT.	E 2432817.953 FT.	N 817424.868 FT.	E 2464279.190 FT.
PT. 612	N	41ø53'42.381410"	W	80ø47'48.272760"	N	248851.238 M.	E	741344.862 M.	N 816439.436 FT.	E 2432228.932 FT.	N 816405.947 FT.	E 2463690.165 FT.
PT. 617	N	41ø53'55.741510"	W	80ø47'39.185380"	N	249267.473 M.	E	741546.250 M.	N 817805.033 FT.	E 2432889.653 FT.	N 817771.514 FT.	E 2464350.892 FT.
PT. 11	N	41ø55'11.600930"	W	80ø47'40.957620"	N	251606.843 M.	E	741459.642 M.	N 825480.117 FT.	E 2432605.506 FT.	N 825446.404 FT.	E 2464066.787 FT.
PT. 13	N	41ø55'06.499400"	W	80ø47'44.334370"	N	251447.945 M.	E	741384.919 M.	N 824958.799 FT.	E 2432360.353 FT.	N 824925.097 FT.	E 2463821.630 FT.
PT. 14	N	41ø55'06.608460"	W	80ø47'25.887830"	N	251459.628 M.	E	741809.865 M.	N 824997.129 FT.	E 2433754.530 FT.	N 824963.416 FT.	E 2465215.794 FT.
PT. 15	N	41ø54'51.416670"	W	80ø47'56.222630"	N	250977.311 M.	E	741120.087 M.	N 823414.727 FT.	E 2431491.483 FT.	N 823381.054 FT.	E 2462952.762 FT.
PT. 38	N	41ø54'15.146950"	W	80ø47'51.523070"	N	249860.548 M.	E	741250.215 M.	N 819750.814 FT.	E 2431918.411 FT.	N 819717.185 FT.	E 2463379.660 FT.
PT. 39	N	41ø54'10.191290"	W	80ø47'55.070110"	N	249706.077 M.	E	741171.456 M.	N 819244.020 FT.	E 2431660.016 FT.	N 819210.401 FT.	E 2463121.261 FT.
PT. 57	N	41ø53'24.732360"	W	80ø48'01.223520"	N	248300.966 M.	E	741056.978 M.	N 814634.085 FT.	E 2431284.433 FT.	N 814600.626 FT.	E 2462745.666 FT.
PT. 60	N	41ø53'09.004750"	W	80ø47'54.213880"	N	247818.944 M.	E	741228.019 M.	N 813052.651 FT.	E 2431845.590 FT.	N 813019.210 FT.	E 2463306.803 FT.

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

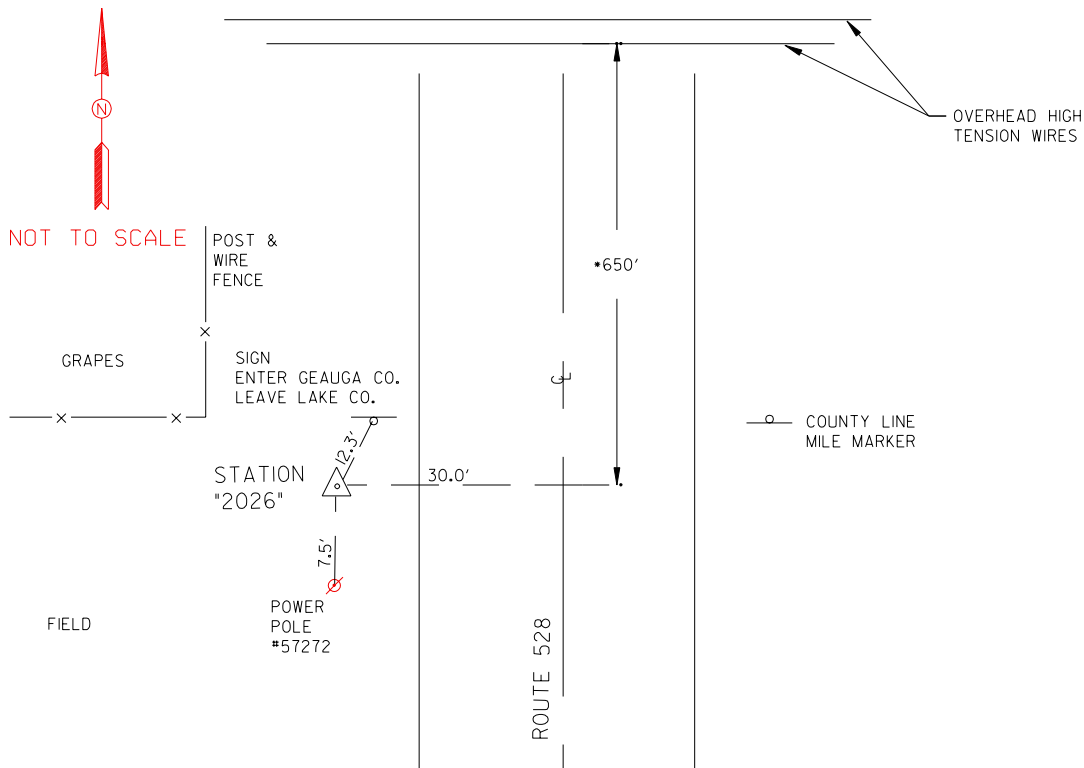
Town THOMPSON County GEAUGA Party Chief RL  
Job No. 6159-B Date 7-8-95 Station 2026 Draftsman EMO  
Checked By RCS  
Sheet No. 1 OF 19

## DATUM NAD 83

LATITUDE 41°-42'-52.20080" LONGITUDE 81°-03'-03.79853"  
NORTHING (Y) 228,412.386 M. EASTING (X) 720,576.084 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-42'-52.01086" LONGITUDE 81°-03'-04.45100"  
NORTHING (Y) 749,350.776 FT. EASTING (X) 2,395,551.706 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A GEAUGA COUNTY CONTROL SURVEY DISK - STAMPED "2026" SET 2" BELOW SURFACE OF GROUND.

TO REACH DESCRIPTION: FROM THE INTERSECTION OF ROUTES 90 AND 528, TRAVEL SOUTH ON ROUTE 528 TO THE GEAUGA COUNTY LINE. STATION IS ON THE WEST SIDE OF ROUTE 528 AT GEAUGA COUNTY/LAKE COUNTY LINES.

SURVEYING METHOD		ALL TIES	
GPS	<input type="checkbox"/>	CONVENTIONAL	<input checked="" type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

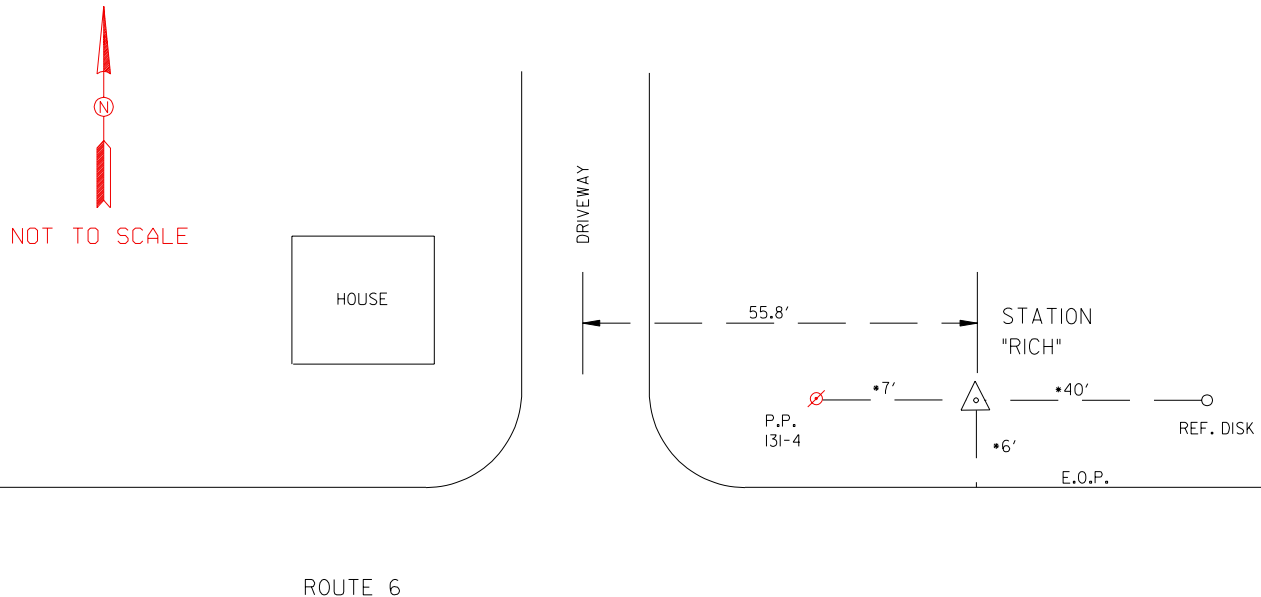
Town LE BOEUF County ERIE Party Chief TB  
Job No. 6159-B Date 7-8-95 Station RICH Draftsman EMO  
Checked By RCS  
Sheet No. 2 OF 19

## DATUM NAD 83

LATITUDE 41°-52'-42.68424" LONGITUDE 79°-54'-31.88883"  
NORTHING (Y) 248,842.063 M. EASTING (X) 815,062.718 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-52'-42.48196" LONGITUDE 79°-54'-32.70688"  
NORTHING (Y) 816,315.171 FT. EASTING (X) 2,705,543.071 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A NATIONAL GEODETIC DISK - STAMPED "RICH 1967" SET IN CONCRETE.

TO REACH DESCRIPTION: FROM THE INTERSECTION OF U.S. HIGHWAY 6 AND STATE HIGHWAY 8 LOCATED ON WEST SIDE OF UNION CITY, TRAVEL WEST ON U.S. HIGHWAY 6 FOR 2.0 MILES TO A FORK, TAKE THE RIGHT FORK AND CONTINUE WEST ON U.S. HIGHWAY 6 FOR 1.85 MILES TO THE STATION ON THE RIGHT JUST BEFORE REACHING THE CREST OF A HILL.

SURVEYING METHOD		ALL TIES	
GPS	<input type="checkbox"/>	DIRECT	<input checked="" type="checkbox"/>
CONVENTIONAL	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-8-95 Station PT. 621A Draftsman EMO  
Checked By RCS  
Sheet No. 3 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-46.36732" LONGITUDE 80°-47'-44.54727"  
NORTHING (Y) 248,975.876 M. EASTING (X) 741,428.325 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-46.17535" LONGITUDE 80°-47'-45.23367"  
NORTHING (Y) 816,814.852 FT. EASTING (X) 2,463,963.995 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A P.K. NAIL SET IN CONCRETE WALK.

TO REACH DESCRIPTION: FROM THE INTERSECTION OF RT. 53 AND MORTON DRIVE, TRAVEL SOUTH ON MORTON DRIVE TO GATE AT KISTER'S MARINA. STATION IS APPROXIMATELY 175 FT. EAST OF GATE ON CONCRETE ON CONCRETE WALK AT DOCK.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

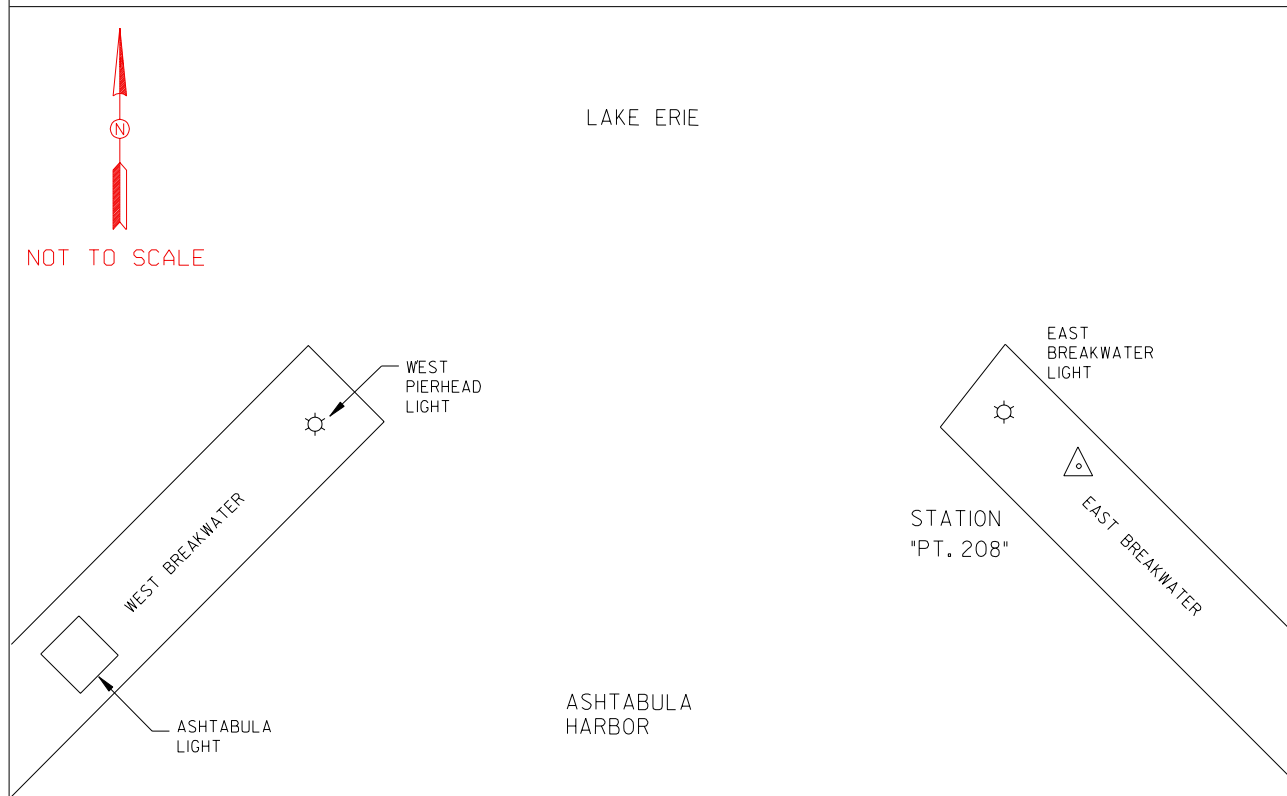
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Job No. 6159-B Date 7-9-95 Station PT. 208 Draftsman EMO  
Checked By RCS  
Sheet No. 4 OF 19

DATUM NAD 83	
LATITUDE <u>41°-55'-11.50079"</u>	LONGITUDE <u>80°-47'-31.55399"</u>
NORTHING (Y) <u>251,607.993 M.</u>	EASTING (X) <u>741,676.359 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-55'-11.30789"</u>	LONGITUDE <u>80°-47'-32.24055"</u>
NORTHING (Y) <u>825,450.175 FT.</u>	EASTING (X) <u>2,464,777.792 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION: STATION MARK IS A U.S. CORPS OF ENGINEERS ARMY DISK -  
STAMPED "PT. 208"

TO REACH DESCRIPTION: ACCESS IS BY BOAT FROM ASHTABULA RIVER TRAVEL NORTHEAST TO  
THE EAST BREAKWATER IN THE ASHTABULA HARBOR TO LAKE ERIE. STATION IS LOCATED AT THE  
NORTHERLY END OF THE EAST BREAKWATER BY THE LIGHT.

SURVEYING METHOD		ALL TIES	
GPS <input checked="" type="checkbox"/>	CONVENTIONAL <input type="checkbox"/>	DIRECT <input checked="" type="checkbox"/>	LEVELED <input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

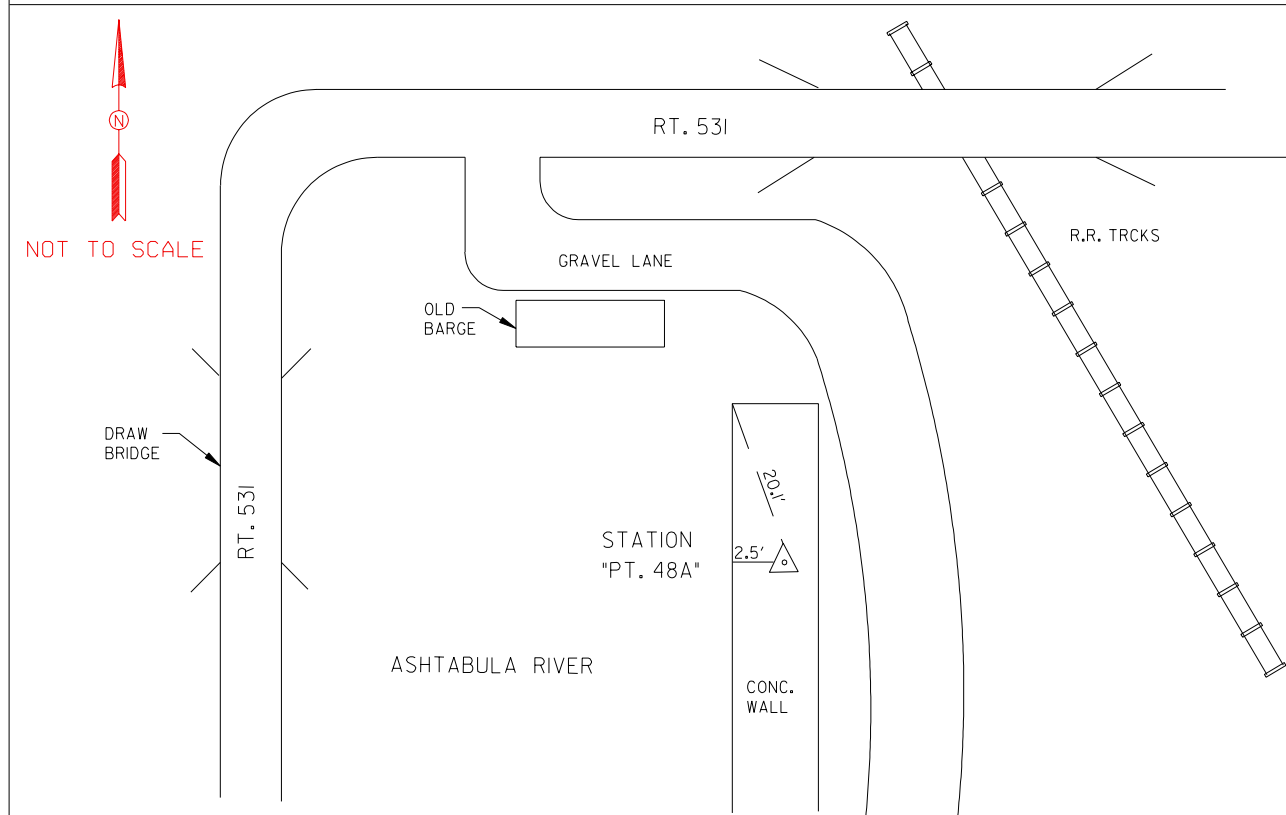
Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-8-95 Station PT. 48A Draftsman EMO  
Checked By RCS  
Sheet No. 5 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-58.88363" LONGITUDE 80°-47'-35.85874"  
NORTHING (Y) 249,365.903 M. EASTING (X) 741,621.023 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-58.69060" LONGITUDE 80°-47'-36.54544"  
NORTHING (Y) 818,094.340 FT. EASTING (X) 2,464,596.203 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A P.K. NAIL SET IN THE TOP OF A CONCRETE WALL.

TO REACH DESCRIPTION: FROM THE INTERSECTION OF HARMON AVENUE AND ROUTE 53I, TRAVEL WEST ON ROUTE 53I ACROSS BRIDGE OVER CONRAIL TRACKS, TURN LEFT AND FOLLOW GRAVEL DRIVE TO STATION ON THE RIGHT.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

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429 PINE STREET LOCKPORT, NEW YORK

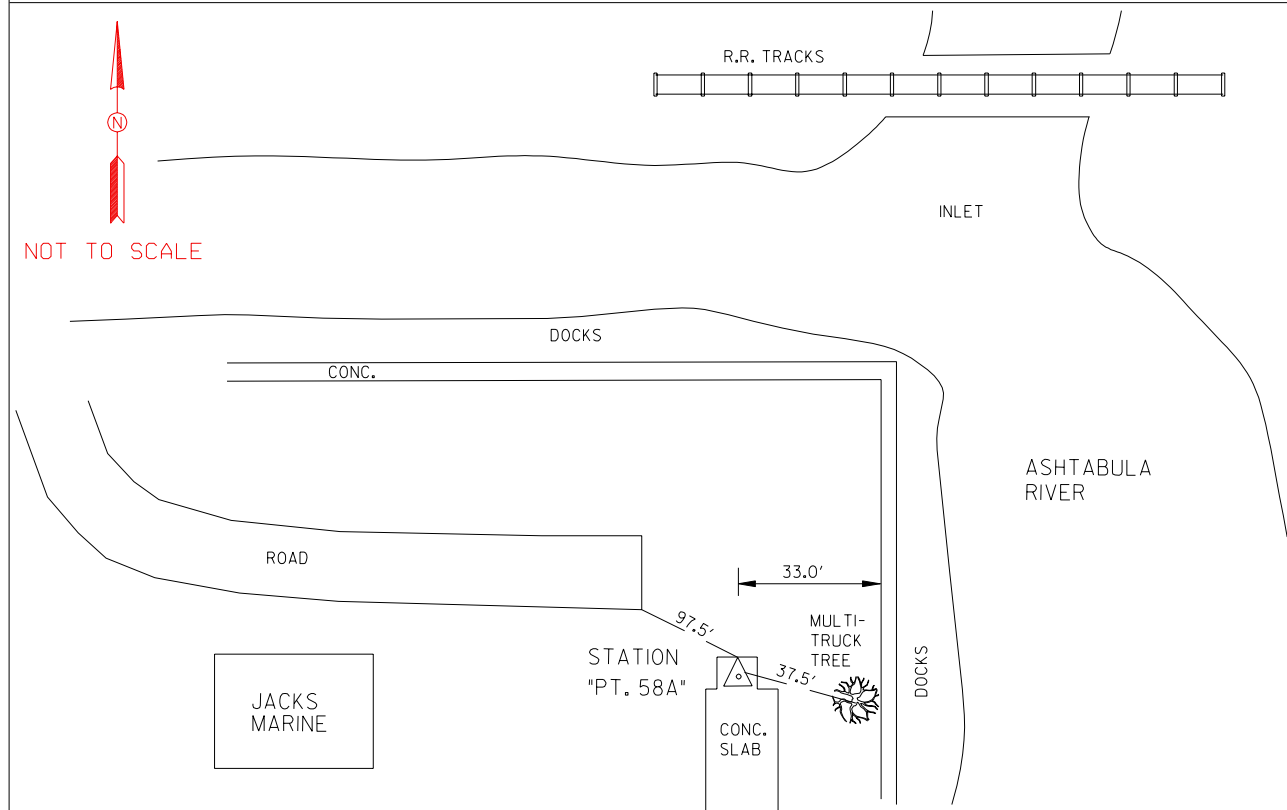
Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-8-95 Station PT. 58A Draftsman EMO  
Checked By RCS  
Sheet No. 6 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-21.25369" LONGITUDE 80°-47'-53.62462"  
NORTHING (Y) 248,197.070 M. EASTING (X) 741,234.229 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-21.06175" LONGITUDE 80°-47'-54.31084"  
NORTHING (Y) 814,259.763 FT. EASTING (X) 2,463,327.184 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A 3/4" STEEL PIN IN CONCRETE PAD - STAMPED "58A"

TO REACH DESCRIPTION: STATION IS LOCATED AT JACKS MARINE. (STOP IN AT OFFICE AND IDENTIFY YOURSELF)

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>



# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

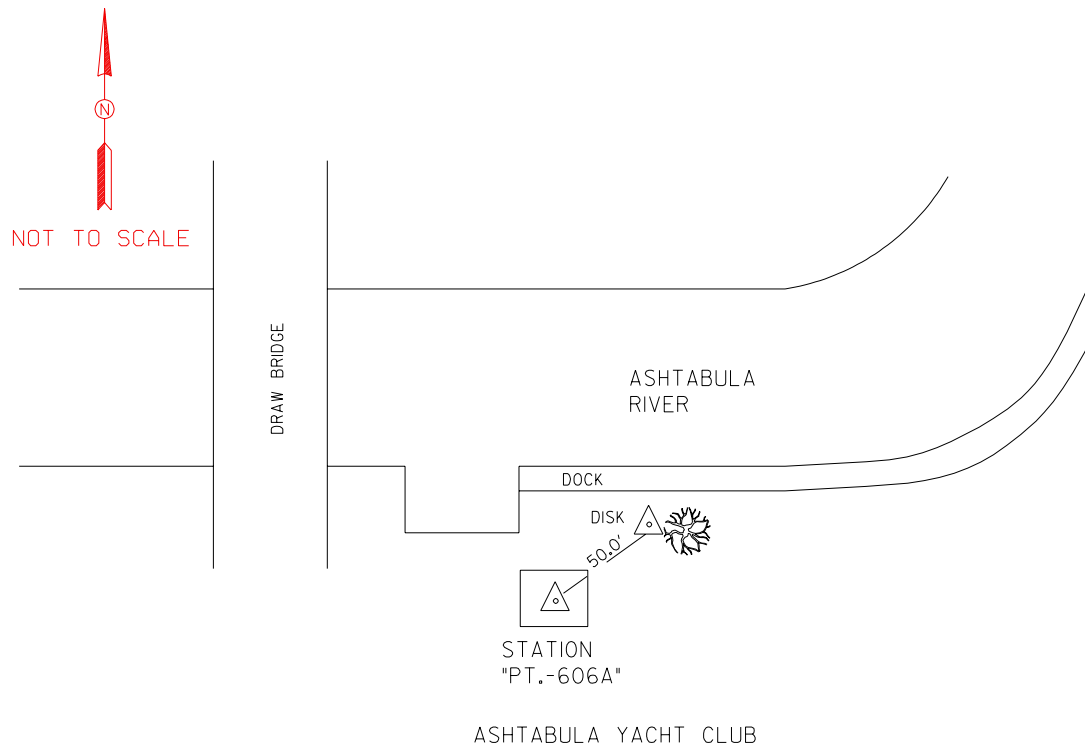
Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Job No. 6159-B Date 7-8-95 Station PT. 606A Draftsman EMO  
Checked By RCS  
Sheet No. 7 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-59.99489" LONGITUDE 80°-47'-51.61828"  
NORTHING (Y) 249,393.084 M. EASTING (X) 741,257.146 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-59.80206" LONGITUDE 80°-47'-52.30454"  
NORTHING (Y) 818.183.539 FT. EASTING (X) 2,463,402.384 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A P.K. NAIL SET IN CONCRETE PAD.

TO REACH DESCRIPTION: STATION IS LOCATED AT THE ASHTABULA YACHT CLUB. TURN LEFT OFF ROUTE 531 AFTER CROSSING DRAW BRIDGE OVER ASHTABULA RIVER, TRAVEL TOWARD MORTON DRIVE AND THE ASHTABULA YACHT CLUB.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

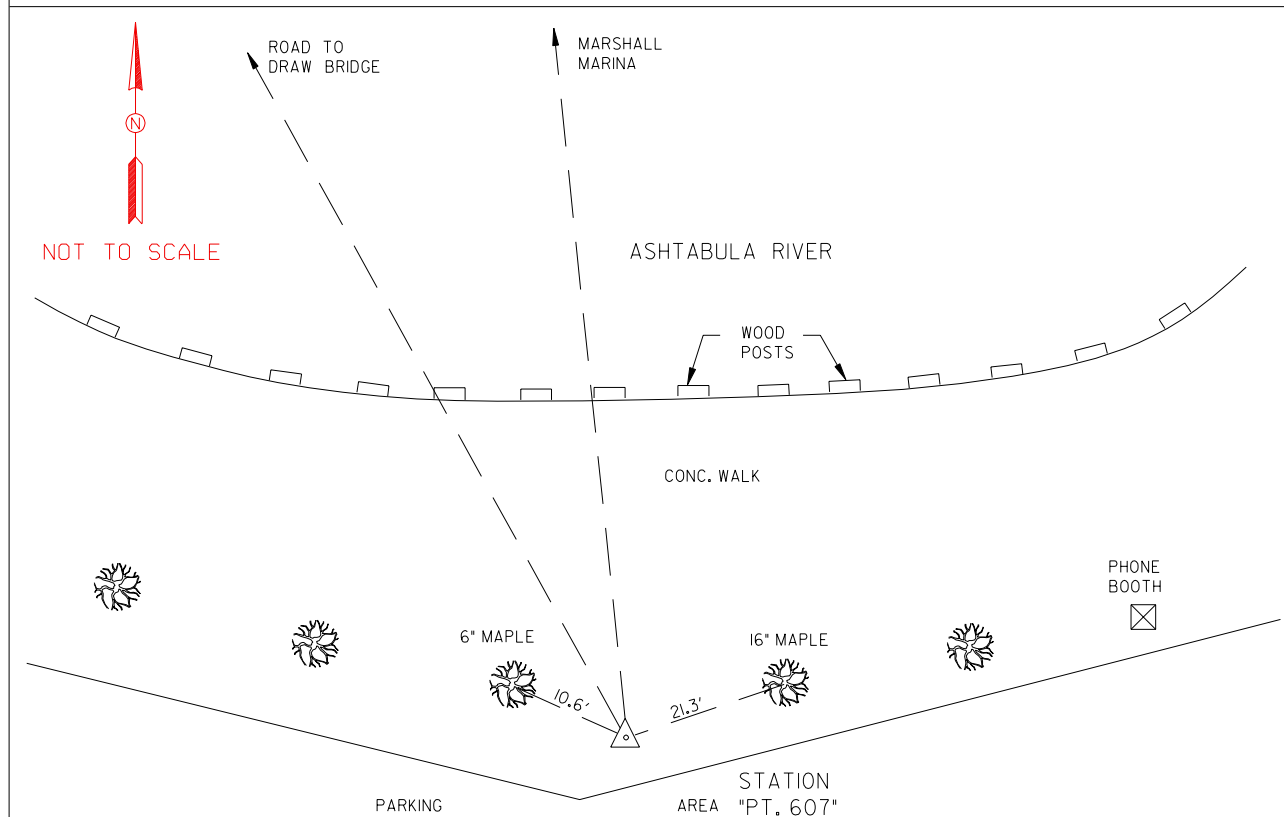
Town CITY OF ASHTABULA County ASHTABULA Party Chief JE  
Job No. 6159-B Date 7-8-95 Station PT. 607 Draftsman EMO  
Checked By RCS  
Sheet No. 8 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-58.95336" LONGITUDE 80°-47'-47.46239"  
NORTHING (Y) 249,362.825 M. EASTING (X) 741,353.553 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-58.76054" LONGITUDE 80°-47'-48.14877"  
NORTHING (Y) 818,084.265 FT. EASTING (X) 2,463,718.679 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION IS A CORPS OF ENGINEERS U.S. ARMY DISK - STAMPED "607,1978".

TO REACH DESCRIPTION: TRAVEL SOUTHWEST ON ROUTE 531 ACROSS DRAW BRIDGE, TURN LEFT ON MORTON AVE. TO STATION ON THE LEFT ALONG THE ASHTABULA RIVER.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

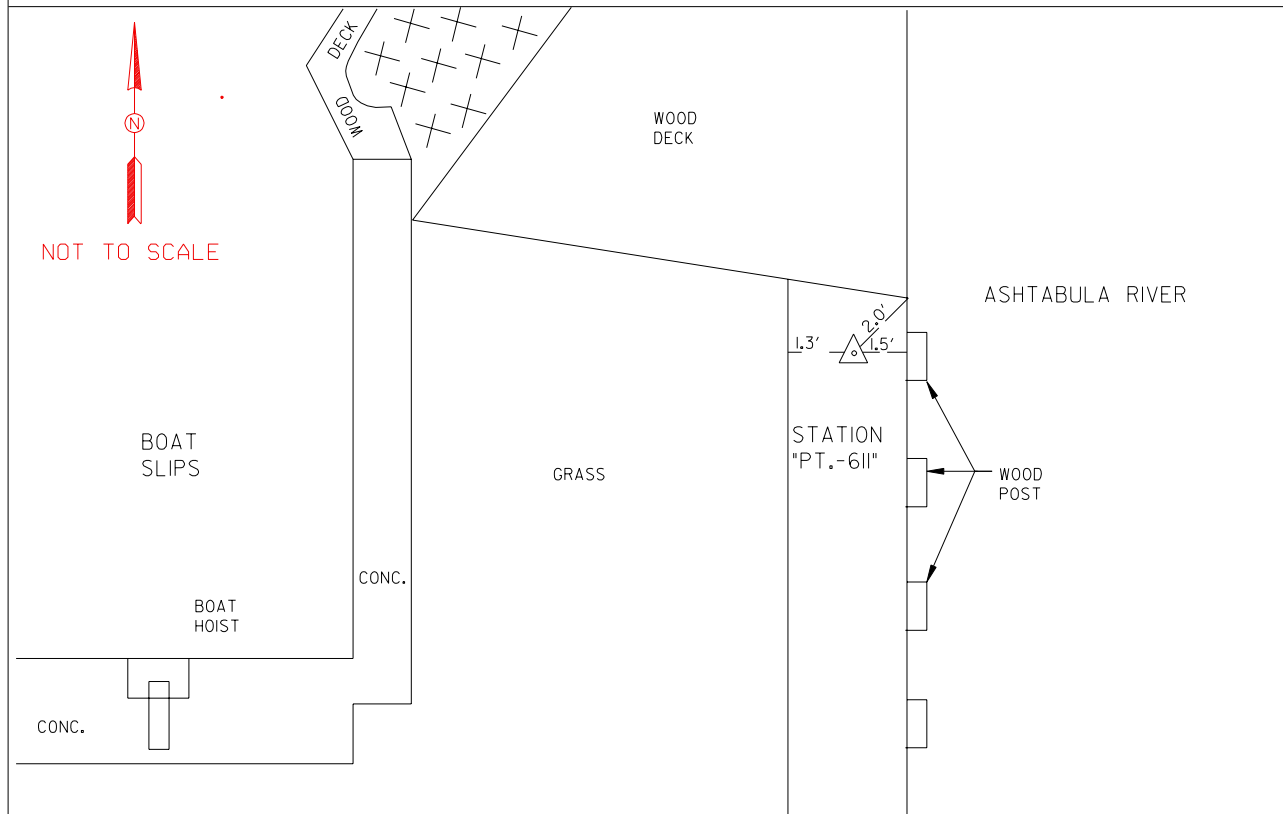
Town CITY OF ASHTABULA County ASHTABULA Party Chief JE  
Job No. 6159-B Date 7-8-95 Station PT. 611 Draftsman EMO  
Checked By RCS  
Sheet No. 9 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-52.33156" LONGITUDE 80°-47'-40.22286"  
NORTHING (Y) 249,161.813 M. EASTING (X) 741,524.396 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-52.13956" LONGITUDE 80°-47'-40.90938"  
NORTHING (Y) 817,424.868 FT. EASTING (X) 2,464,279.190 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION IS A CORPS OF ENGINEERS U.S. ARMY DISK - STAMPED  
"PT. 611, 1978", SET IN TOP OF CONCRETE WALL.

TO REACH DESCRIPTION: TRAVEL WEST ON ROUTE 53 TO DRAW BRIDGE, AFTER CROSSING  
OVER ASHTABULA RIVER, TURN LEFT ON MORTON AVENUE AND TRAVEL TO YACHT CLUB AND  
STATION JUST SOUTH OF WOOD DECK ALONG THE ASHTABULA RIVER.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

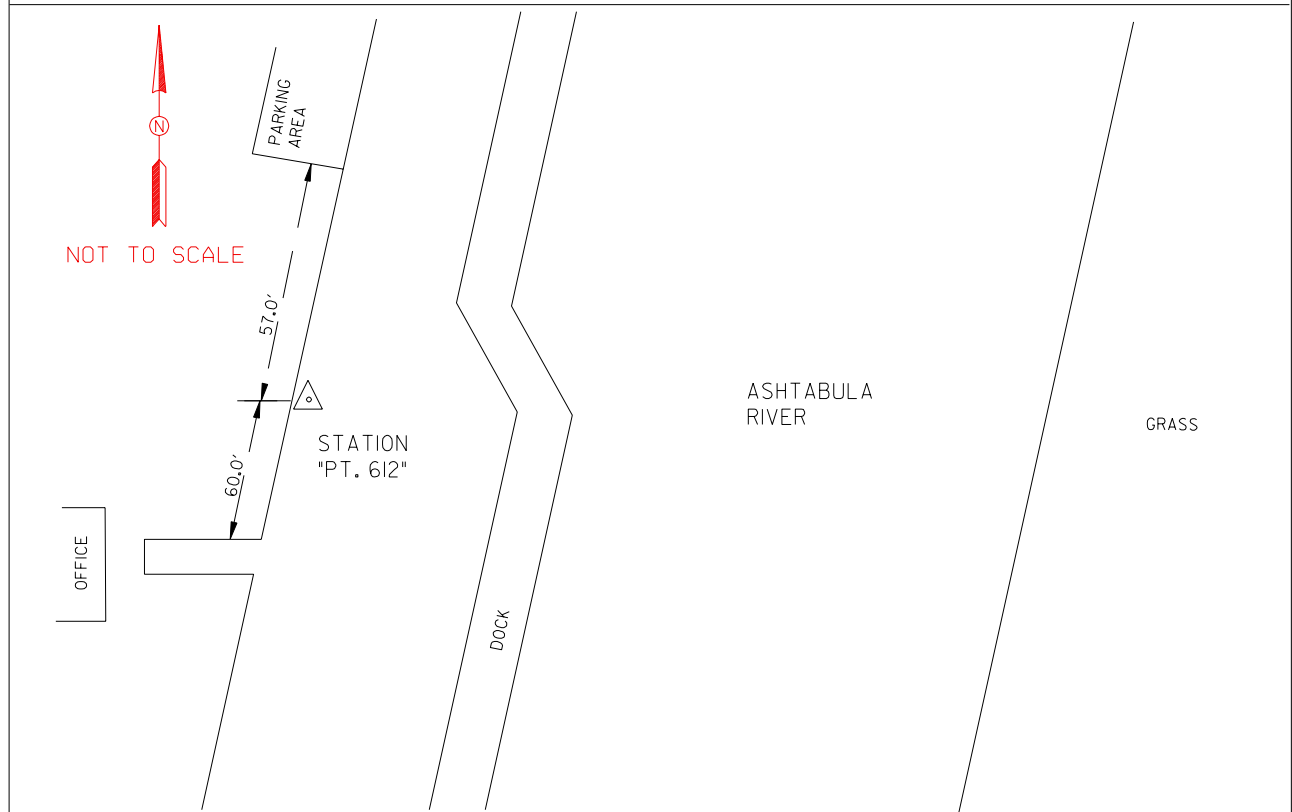
Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Job No. 6159-B Date 7-8-95 Station PT. 612 Draftsman EMO  
Checked By RCS  
Sheet No. 10 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-42.38141" LONGITUDE 80°-47'-48.27276"  
NORTHING (Y) 248,851.238 M. EASTING (X) 741,344.862 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-42.18946" LONGITUDE 80°-47'-48.95904"  
NORTHING (Y) 816,405.947 FT. EASTING (X) 2,463,690.165 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A U.S. CORPS OF ENGINEERS ARMY DISK  
STAMPED "612, 1978", SET IN ROAD AT KISTER'S MARINA.

TO REACH DESCRIPTION: TRAVEL ROUTE 53 TO SOUTH SIDE OF DRAWBRIDGE TURN LEFT ON  
MORTON AVENUE TO KISTER'S MARINA. STATION IS LOCATED ABOUT 57 FEET SOUTH OF PARKING  
AREA AT MARINA.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	CONVENTIONAL	<input type="checkbox"/>
DIRECT	<input checked="" type="checkbox"/>	LEVELED	<input type="checkbox"/>

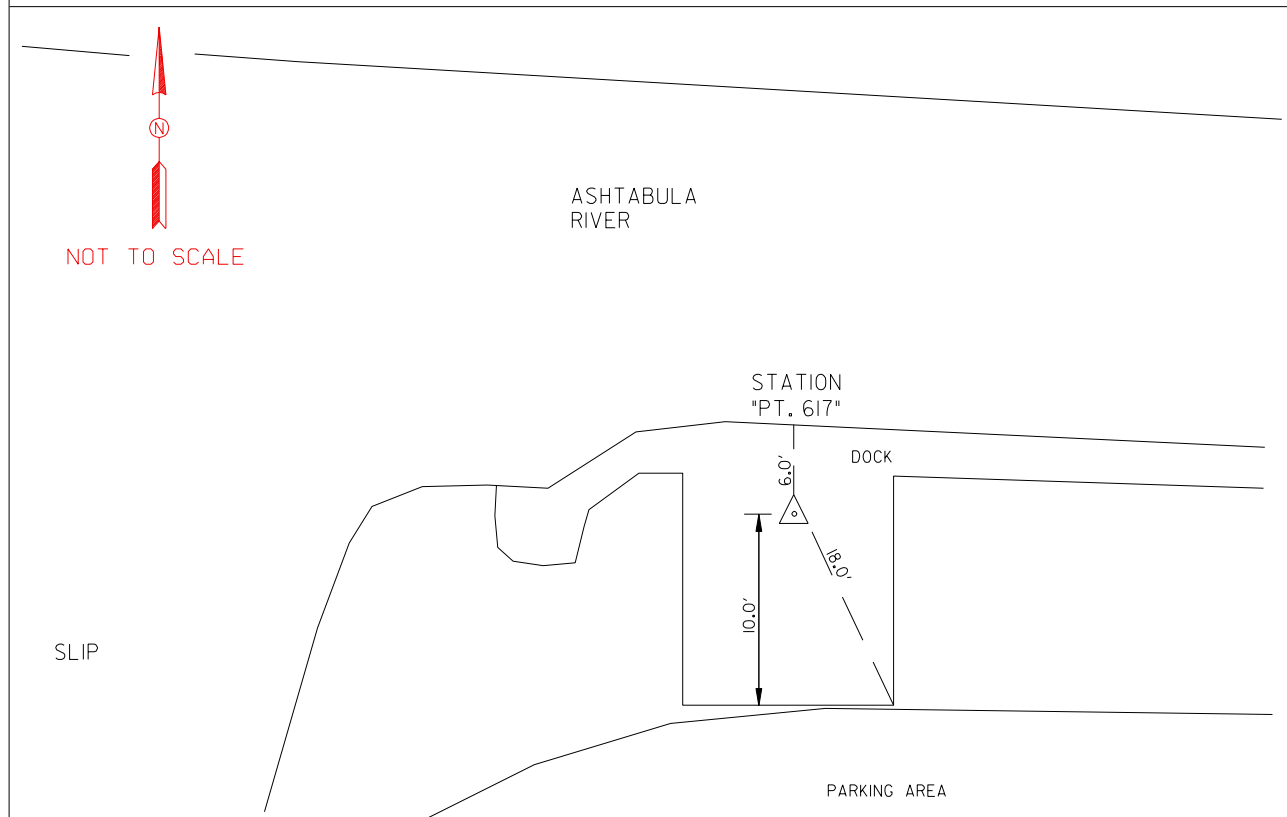
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Job No. 6159-B Date 7-8-95 Station PT. 617 Draftsman EMO  
Checked By RCS  
Sheet No. 11 OF 19

DATUM NAD 83	
LATITUDE <u>41°-53'-55.74151"</u>	LONGITUDE <u>80°-47'-39.18538"</u>
NORTHING (Y) <u>249,267.473 M.</u>	EASTING (X) <u>741,546.250 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-53'-55.54949"</u>	LONGITUDE <u>80°-47'-39.87189"</u>
NORTHING (Y) <u>817,771.514 FT.</u>	EASTING (X) <u>2,464,350.892 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION: STATION MARK IS A CORPS OF ENGINEERS U.S. ARMY DISK-STAMPED "617, 1978", SET IN NORTHWEST END OF DOCK.

TO REACH DESCRIPTION: TRAVEL WEST ON ROUTE 53 TO DRAW BRIDGE, AFTER CROSSING OVER ASHTABULA RIVER TURN LEFT ON MORTON AVENUE TO FIRST PRIVATE MARINA ON THE LEFT.

SURVEYING METHOD		ALL TIES	
GPS <input checked="" type="checkbox"/>	CONVENTIONAL <input type="checkbox"/>	DIRECT <input checked="" type="checkbox"/>	LEVELED <input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

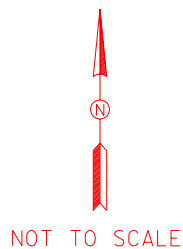
Town CITY OF ASHTABULA County ASHTABULA Party Chief JE  
Job No. 6159-B Date 7-9-95 Station PT. 11 Draftsman MSS  
Checked By RCS  
Sheet No. 12 OF 19

## DATUM NAD 83

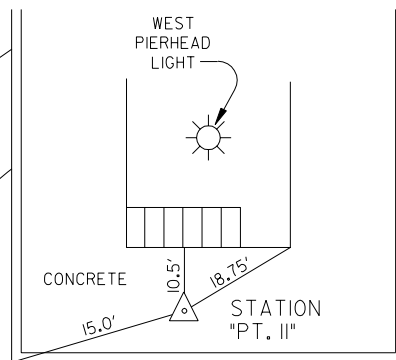
LATITUDE 41°-55'-11.60093" LONGITUDE 80°-47'-40.95762"  
NORTHING (Y) 251,606.843 M. EASTING (X) 741,459.642 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-55'-11.40807" LONGITUDE 80°-47'-41.64382"  
NORTHING (Y) 825,446.404 FT. EASTING (X) 2,464,066.787 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



U.S. WEST BREAKWATER



TO LAKE ERIE

ASHTABULA HARBOR

STATION DESCRIPTION: STATION MARK IS A U.S. ENGINEER OFFICE DISK - STAMPED "11" SET IN CONCRETE.

TO REACH DESCRIPTION: TRAVEL BY BOAT - NORTHERLY ON THE ASHTABULA RIVER TO END OF THE U.S. WEST BREAKWATER, NEAR COAST GUARD SIGNAL BEACON #2 (RED), STATION IS ON SOUTH SIDE OF CONCRETE BASE.

## SURVEYING METHOD

GPS ☒ CONVENTIONAL ☐

## ALL TIES

DIRECT ☒ LEVELED ☐

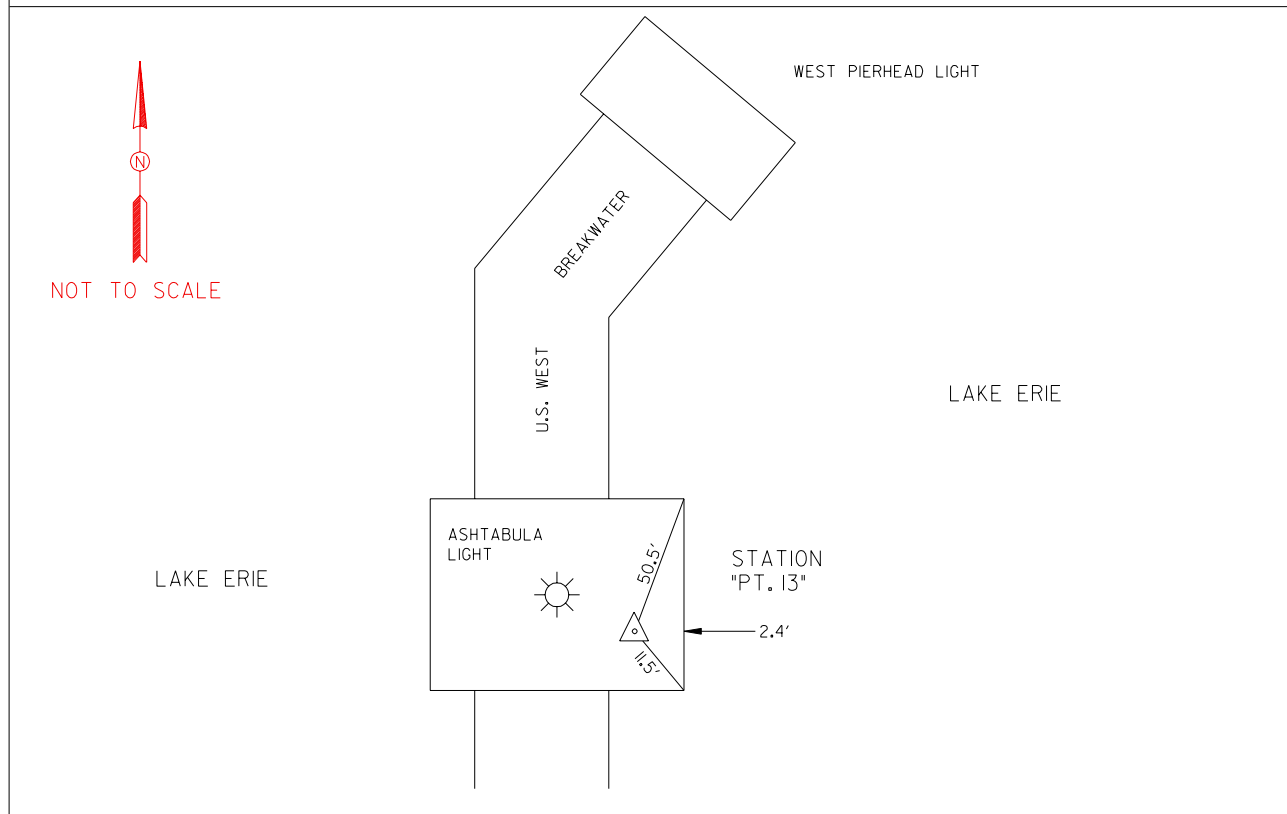
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-9-95 Station PT. 13 Draftsman MSS  
Checked By RCS  
Sheet No. 13 OF 19

DATUM NAD 83	
LATITUDE <u>41°-55'-06.49940"</u>	LONGITUDE <u>80°-47'-44.33437"</u>
NORTHING (Y) <u>251,447.945 M.</u>	EASTING (X) <u>741,384.919 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-55'-06.30655"</u>	LONGITUDE <u>80°-47'-45.02047"</u>
NORTHING (Y) <u>824,925.097 FT.</u>	EASTING (X) <u>2,463,821.630 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION: STATION MARK IS A CORPS OF ENGINEERS DISK - STAMPED "I3" SET IN S.W. CORNER OF THE CONCRETE BASE OF LIGHT.

TO REACH DESCRIPTION: TRAVEL BY BOAT NORTHERLY ON THE ASHTABULA RIVER TO THE U.S. WEST BREAKWATER. STATION IS LOCATED ON THE BREAKWATER ABOUT 575 FT. SOUTH OF THE NORTHERLY END OF THE U.S. WEST BREAKWATER AT THE BASE OF THE ASHTABULA LIGHT.

SURVEYING METHOD	ALL TIES
GPS <input checked="" type="checkbox"/> CONVENTIONAL <input type="checkbox"/>	DIRECT <input checked="" type="checkbox"/> LEVELED <input type="checkbox"/>

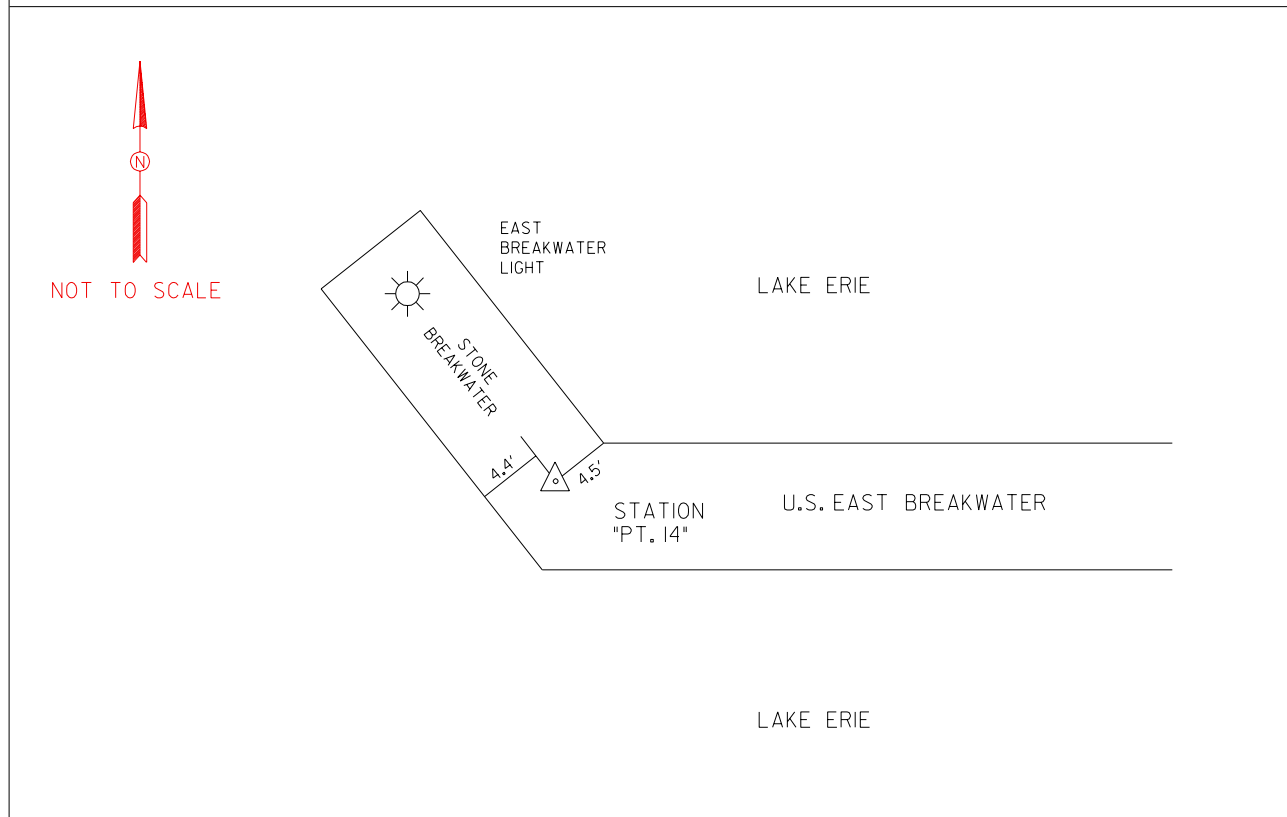
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-9-95 Station PT. 14 Draftsman MSS  
Checked By RCS  
Sheet No. 14 OF 19

DATUM NAD 83	
LATITUDE <u>41°-55'-06.60846"</u>	LONGITUDE <u>80°-47'-25.88783"</u>
NORTHING (Y) <u>251,459.628 M.</u>	EASTING (X) <u>741,809.865 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-55'-06.41551"</u>	LONGITUDE <u>80°-47'-26.57462"</u>
NORTHING (Y) <u>824,963.416 FT.</u>	EASTING (X) <u>2,465,215.794 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION: STATION MARK IS A U.S. ENGINEER DISK - STAMPED "I4" SET IN U.S. EAST BREAKWATER.

TO REACH DESCRIPTION: TRAVEL BY BOAT TO THE ENTRANCE OF THE ASHTABULA RIVER FROM LAKE ERIE TO THE U.S. EAST BREAKWATER, TRAVEL SOUTHEASTERLY \*700' ALONG BREAKWATER TO ANGLE POINT AND STATION ON THE U.S. EAST BREAKWATER.

SURVEYING METHOD		ALL TIES	
GPS <input checked="" type="checkbox"/>	CONVENTIONAL <input type="checkbox"/>	DIRECT <input checked="" type="checkbox"/>	LEVELED <input type="checkbox"/>



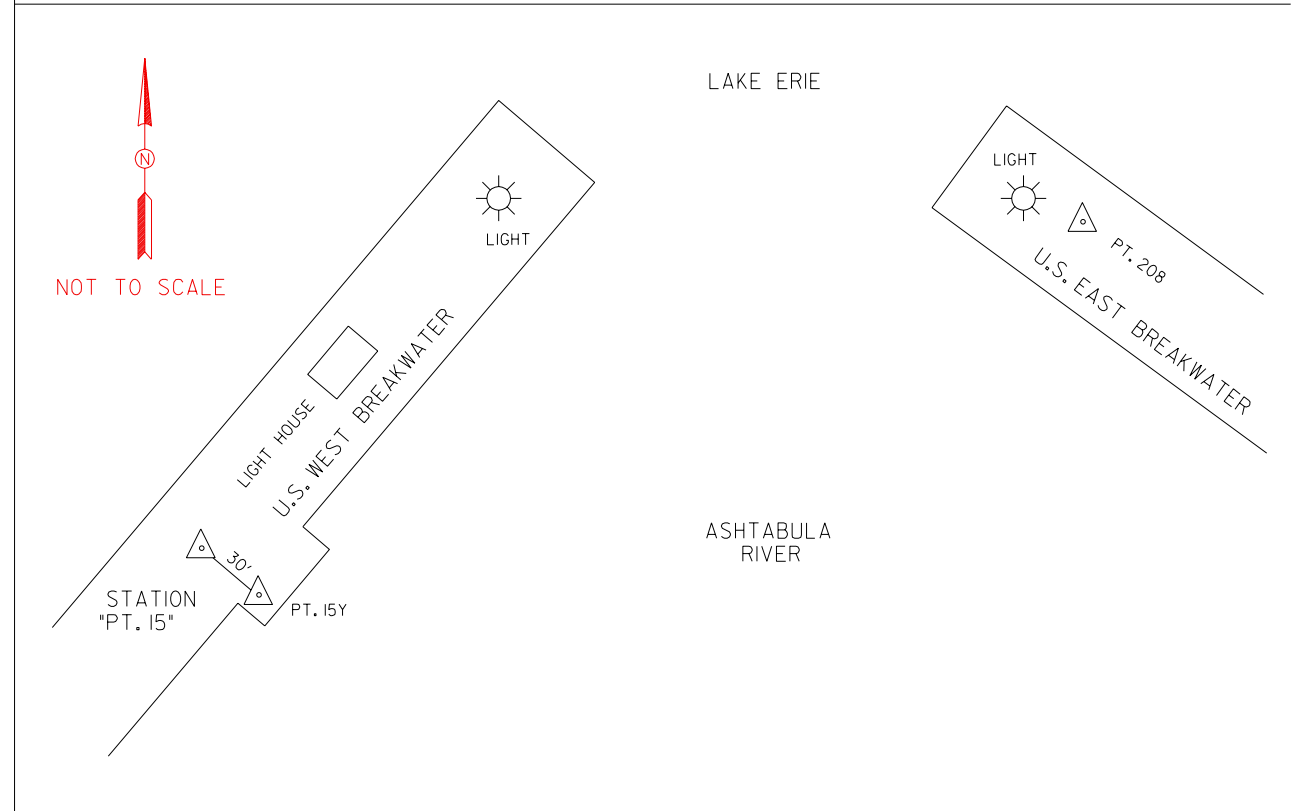
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Draftsman MSS  
Job No. 6159-B Date 7-9-95 Station PT. 15 Checked By RCS  
Sheet No. 15 OF 19

DATUM NAD 83	
LATITUDE <u>41°-54'-51.41667"</u>	LONGITUDE <u>80°-47'-56.22263"</u>
NORTHING (Y) <u>250,977.311 M.</u>	EASTING (X) <u>741,120.087 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-54'-51.22385"</u>	LONGITUDE <u>80°-47'-56.90834"</u>
NORTHING (Y) <u>823,381.054 FT.</u>	EASTING (X) <u>2,462,952.762 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION: STATION MARK IS A U.S. ENGINEER OFFICE DISK - STAMPED "15"  
SET IN U.S. WEST BREAKWATER.

TO REACH DESCRIPTION: TRAVEL BY BOAT TO THE ENTRANCE OF THE ASHTABULA RIVER  
FROM LAKE ERIE TO THE U.S. WEST BREAKWATER, TRAVEL SOUTHERLY \*2400' ALONG BREAKWATER  
TO STATION ON U.S. WEST BREAKWATER.

SURVEYING METHOD		ALL TIES	
GPS <input checked="" type="checkbox"/>	CONVENTIONAL <input type="checkbox"/>	DIRECT <input checked="" type="checkbox"/>	LEVELED <input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

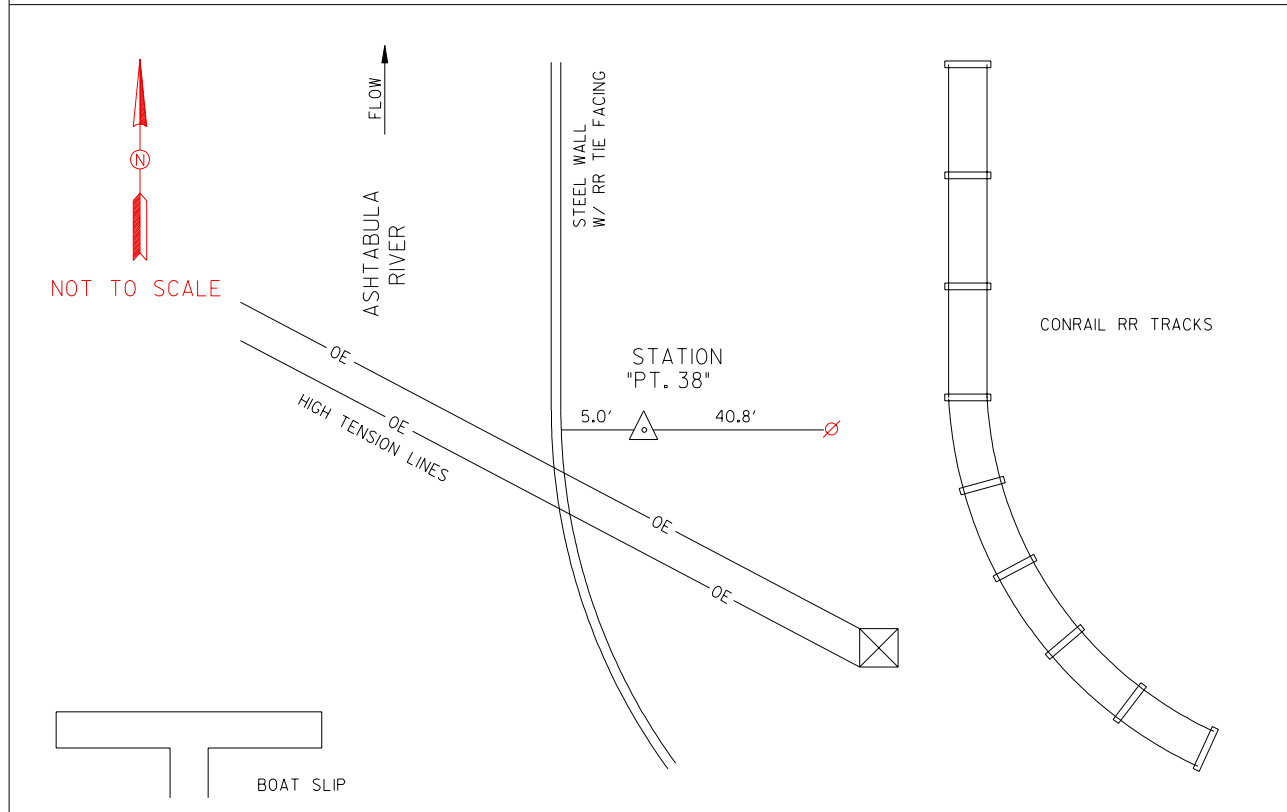
Town CITY OF ASHTABULA County ASHTABULA Party Chief JE  
Job No. 6159-B Date 7-9-95 Station PT. 38 Draftsman MSS  
Checked By RCS  
Sheet No. 16 OF 19

## DATUM NAD 83

LATITUDE 41°-54'-15.14695" LONGITUDE 80°-47'-51.52307"  
NORTHING (Y) 249,860.548 M. EASTING (X) 741,250.215 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-54'-14.95409" LONGITUDE 80°-47'-52.20920"  
NORTHING (Y) 819,717.185 FT. EASTING (X) 2,463,379.660 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A U.S. ENGINEER OFFICE DISK - STAMPED "38" AND SET IN THE TOP OF BOAT TIE OFF.

TO REACH DESCRIPTION: ACCESS IS BY BOAT, STATION IS LOCATED \*500' NORTH OF THE COAST GUARD STATION OF THE EAST SIDE OF THE ASHTABULA RIVER.

SURVEYING METHOD		ALL TIES	
GPS	<input checked="" type="checkbox"/>	DIRECT	<input checked="" type="checkbox"/>
CONVENTIONAL	<input type="checkbox"/>	LEVELED	<input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

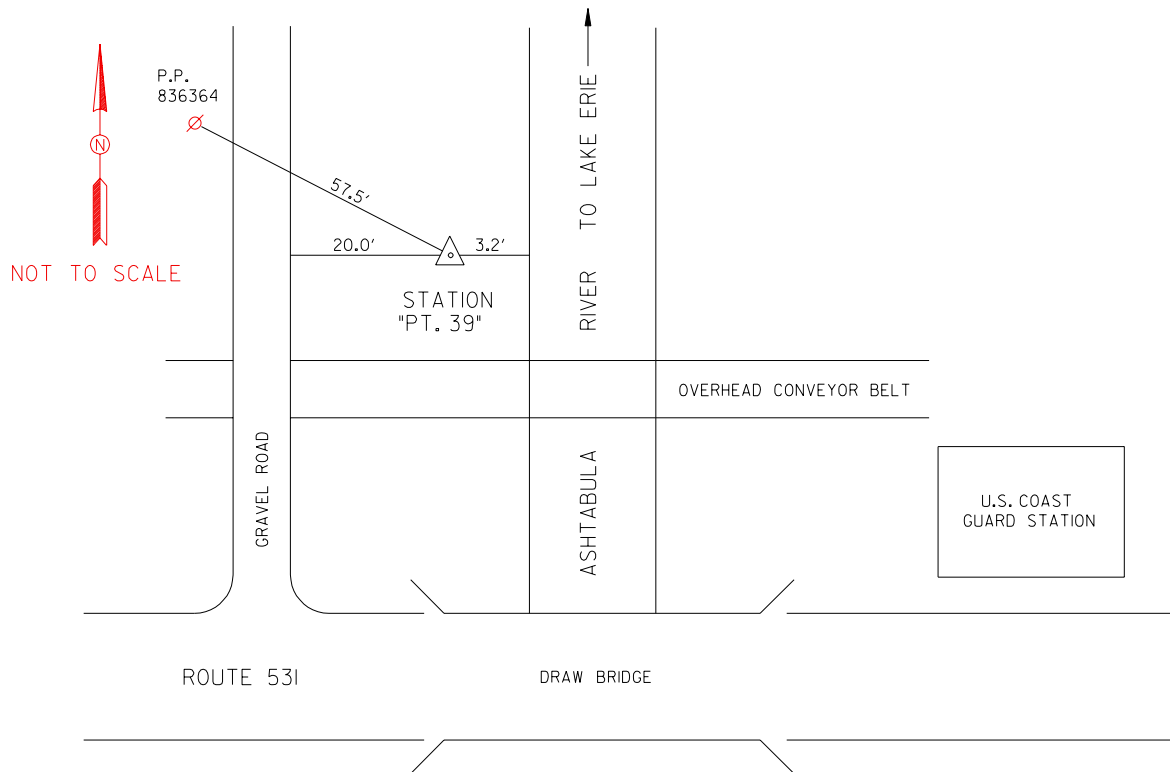
Town CITY OF ASHTABULA County ASHTABULA Party Chief RL  
Job No. 6159-B Date 7-8-95 Station PT. 39 Draftsman MSS  
Checked By RCS  
Sheet No. 17 OF 19

## DATUM NAD 83

LATITUDE 41°-54'-10.19129" LONGITUDE 80°-47'-55.07011"  
NORTHING (Y) 249,706.077 M. EASTING (X) 741,171.456 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-54'-09.99845" LONGITUDE 80°-47'-55.75613"  
NORTHING (Y) 819,210.401 FT. EASTING (X) 2,463,121.261 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A U.S. ENGINEER OFFICE DISK - STAMPED "39" AND SET IN THE TOP OF BOAT TIE OFF.

TO REACH DESCRIPTION: AT DRAW BRIDGE ON ROUTE 531 IN ASHTABULA, TRAVEL WEST TO GRAVEL LANE ON THE NORTH SIDE OF RT. 531, TRAVEL NORTH ON GRAVEL LANE FOR 0.2 MILE TO STATION ON RIGHT.

### SURVEYING METHOD

GPS ☒ CONVENTIONAL ☐

### ALL TIES

DIRECT ☒ LEVELED ☐

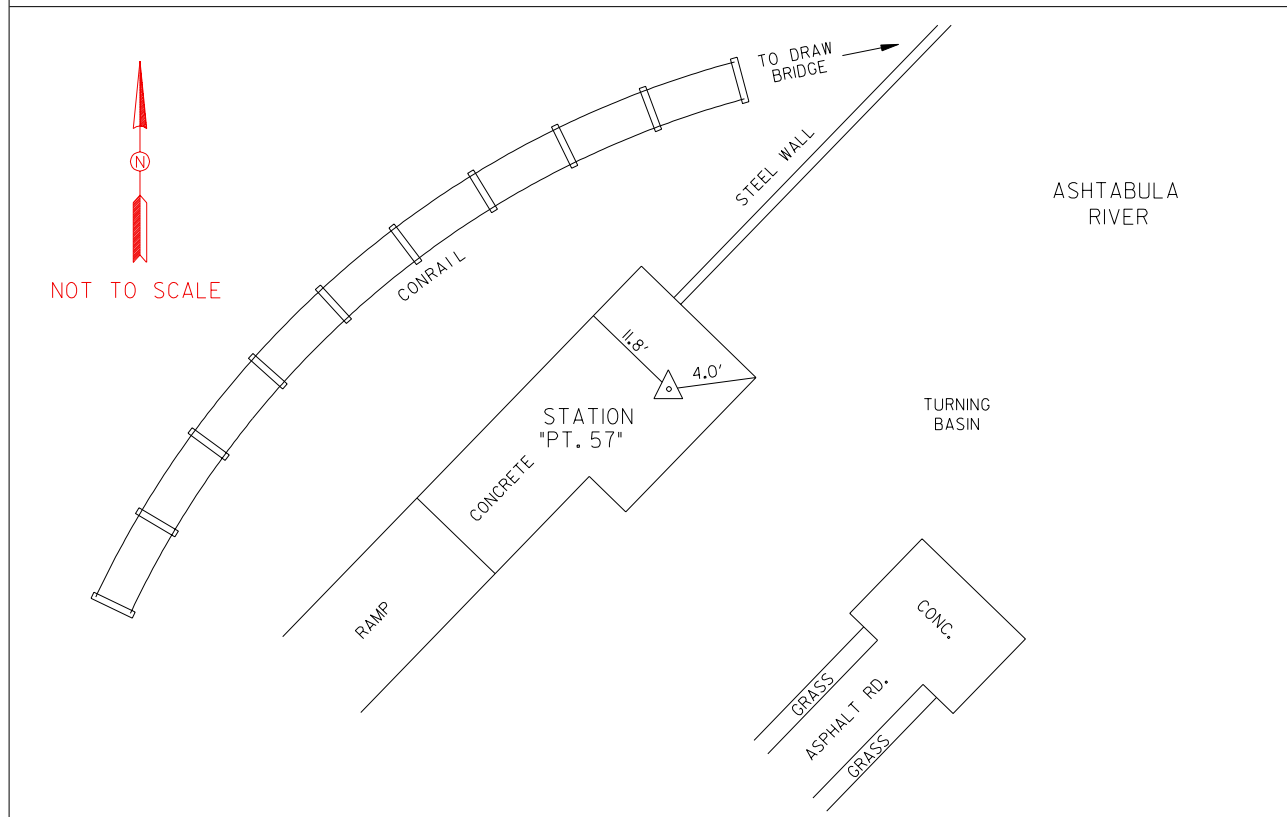
# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

Town CITY OF ASHTABULA County ASHTABULA Party Chief JE  
Job No. 6159-B Date 7-8-95 Station PT. 57 Draftsman MSS  
Checked By RCS  
Sheet No. 18 OF 19

DATUM NAD 83	
LATITUDE <u>41°-53'-24.73236"</u>	LONGITUDE <u>80°-48'-01.22352"</u>
NORTHING (Y) <u>248,300.966 M.</u>	EASTING (X) <u>741,056.978 M.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>
DATUM NAD 27	
LATITUDE <u>41°-53'-24.54044"</u>	LONGITUDE <u>80°-48'-01.90938"</u>
NORTHING (Y) <u>814,600.626 FT.</u>	EASTING (X) <u>2,462,745.666 FT.</u>
ELEVATION <u>N.A.</u>	COORDINATE SYSTEM <u>OHIO - NORTH ZONE</u>



STATION DESCRIPTION:	STATION MARK IS A U.S. ENGINEER OFFICE DISK - STAMPED "57" AND SET IN CONCRETE DOCK.
TO REACH DESCRIPTION:	GO TO JACKS MARINE (STOP IN AT OFFICE AND IDENTIFY YOURSELF) ONCE THROUGH GATE TURN LEFT AND FOLLOW PAST FISH CLEANING STAND, ALONG RAILROAD TO BOAT RAMP AND STATION.
SURVEYING METHOD	
GPS <input checked="" type="checkbox"/>	CONVENTIONAL <input type="checkbox"/>
ALL TIES	
DIRECT <input checked="" type="checkbox"/>	LEVELED <input type="checkbox"/>

# CONTROL STATION RECORD

McINTOSH & McINTOSH P.C.

429 PINE STREET LOCKPORT, NEW YORK

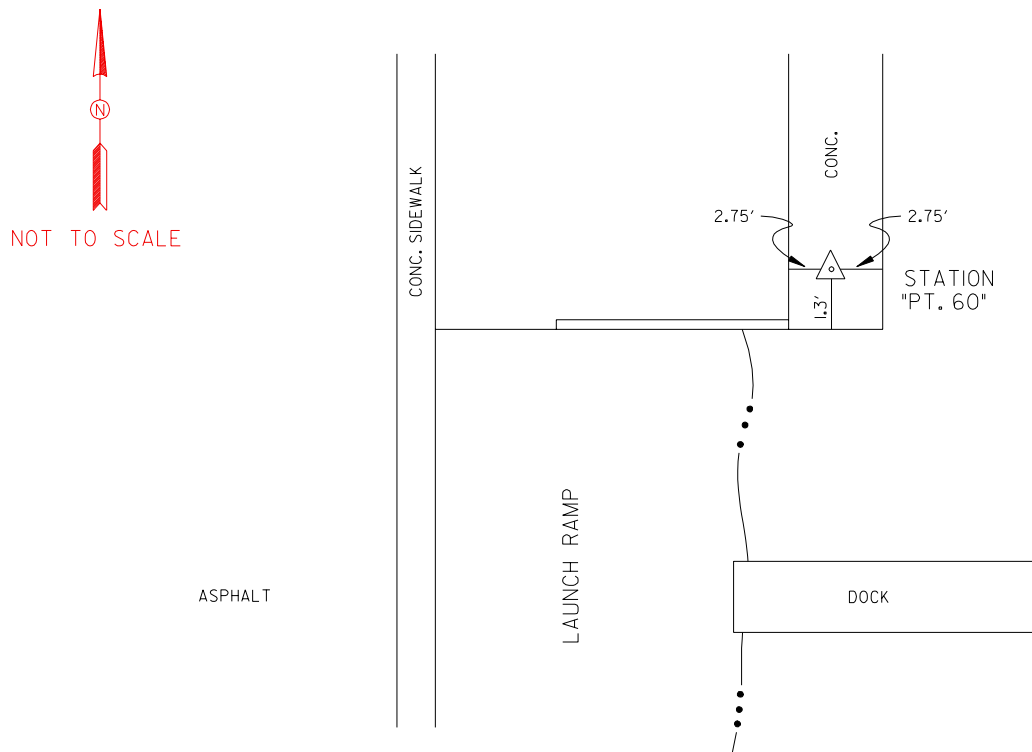
Town CITY OF ASHTABULA County ASHTABULA Party Chief TB  
Job No. 6159-B Date 7-8-95 Station PT. 60 Draftsman MSS  
Checked By RCS  
Sheet No. 19 OF 19

## DATUM NAD 83

LATITUDE 41°-53'-09.00475" LONGITUDE 80°-47'-54.21388"  
NORTHING (Y) 247,818.944 M. EASTING (X) 741,228.019 M.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE

## DATUM NAD 27

LATITUDE 41°-53'-08.81281" LONGITUDE 80°-47'-54.90015"  
NORTHING (Y) 813,019.210 FT. EASTING (X) 2,463,306.803 FT.  
ELEVATION N.A. COORDINATE SYSTEM OHIO - NORTH ZONE



STATION DESCRIPTION: STATION MARK IS A U.S. HARBOR LINE DISK - STAMPED "60" AND SET IN CONCRETE DOCK.

TO REACH DESCRIPTION: GO TO JACKS MARINE (STOP IN AT OFFICE AND IDENTIFY YOURSELF) TRAVEL SOUTHERLY ALONG WESTERLY SIDE OF INLET TO BOAT LAUNCH RAMP AND STATION LOCATED IN SOUTHERLY END OF CONCRETE NORTH OF DOCK.

### SURVEYING METHOD

GPS ☒ CONVENTIONAL ☐

### ALL TIES

DIRECT ☒ LEVELED ☐